

Hardik Sachan

+91 9452757947

sachanhardik@gmail.com

GitHub

LinkedIn

Blog

EXPERIENCE

Logistics Coordinators | Ontario, CA (Remote)

Apr 2023 — Apr 2024

Tech Head

Aug 2023 — Apr 2024

[Experience Letter](#)

Full Stack Developer Apr 2023 — Aug 2023

- Improved backend **request throughput by 58%** and **average response time by 32%** by re-architecting the backend from a monolithic NodeJS environment to a modular Go solution with PostgreSQL and gRPC.
- Reduced First Contentful Paint (FCP) by 40%** and **Time to Interactive (TTI) by 29%** by migrating the frontend from a React SPA to Next.js resulting in a faster and responsive user experience.
- Enabled continuous integration and continuous delivery (CI/CD) with automated deployments using Kubernetes, streamlining the development process and **reducing deployment time by 40%** for FMS.
- Reduced Driver's Qualification File generation time by 80%** by re-writing the service from Puppeteer on the backend to a Next.js app utilizing the router and user-prompted printing.
- Increased development team velocity** by implementing Agile methodologies and cross-functional collaboration between a team of designers and developers, ensuring on-time and on-budget delivery of FMS.

PROJECTS

Server Side Utilities

[Github](#)

This project offers a suite of robust libraries designed to enhance various functionalities:

- xmessage:** Delivers asynchronous message handling with **idempotent inbox** and **transactional outbox**, ensuring reliable communication.
- xretry:** Implements seamless retry mechanisms for operations, improving resilience and fault tolerance.
- xerrors:** Enhances error handling with advanced features for better error management and debugging.
- xlog:** Provides comprehensive logging capabilities to monitor and track application events effectively.
- xtoken:** Facilitates secure token generation and management for authentication and authorization processes.
- xhash:** Offers versatile hashing functionalities, including bcrypt, for secure data hashing needs.
- Technologies Used — Go, PostgreSQL, RabbitMQ**

Identity Reconciliation API

[Github](#)

- Developed an identity reconciliation service for an e-commerce platform.
- Designed to identify and link customer purchases across different contact information.
- Technologies Used — NodeJS, PostgreSQL, REST, HTTP**

Autonomous Driving System | B.Tech Minor Project

[Presentation](#)

[Report](#)

[Github](#)

- Performed semantic segmentation of RGB images for lane identification under varying conditions.
- Employed Proximal Policy Optimization (PPO) for lane following within the CARLA simulator environment.

EDUCATION

2021 - 2025 National Institute of Technology Delhi — B. Tech, EEE

7.77/10

2020 - 2021 Delhi Public School — Class XII

98.8%

SKILLS

Languages and Databases — Go, Typescript, Rust, C++, Python, Kotlin, Java, PostgreSQL, MongoDB

Web Technologies — ReactJS, NextJS, Drizzle, Express JS, Chakra UI, Tailwind CSS, Tanstack Query

DevOps — Docker, Kubernetes, Git, Argo CD, Crossplane, Prometheus, Linux

Android — Android SDK, Jetpack Compose, SQL Delight, Dagger Hilt, Jetpack Datastore

Software Architecture — Hexagonal Architecture, Test Driven Development, Domain Driven Design

ARTICLES

Jun 09, 2024 Graceful Retries in Go

[Link](#)

7 Articles Introduction to Kotlin for Android

[Link](#)